



underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

[CTGCAGTCTATTGGATGAAGAGTGACATATTCATATAATTCTTAAAGTAGGCAGAAAT  
 TAAAGGGGATGGAAATATATACTTGTACTGCCTTAGATAGTCACCAGGATGTTGTTACAG  
 TCTTCGTTTACTGCTTCTGAAGCCTATACTGATAGAATTAATAAAATACTGAGAGAGAGA  
 GAGAGGGACAGA  
 GAGAGAGAGAGAGAAGAGAAGAAAACAAGGTSAGCCATCTGCTTAACCTTATGTCCACAT  
 TCTCTCAAGAGCATTGTCTTATTTGTAGAATTATCTATATTGTTAAGAATCATCTCCATT  
 GTTAAGATTTGTGGGCTGGAGATCCAGCTCTGTTGATAAAGTGCTTGCCTAACATGCAT  
 GAAGTCTTAGCTTCTATTCCAAGGCTACATAAAACCTTGTGTTGTGATGAATGCCTGTA  
 ATCCCAGTACCCAGCAAGGAGAGACAAGGAGGATCAGAAGCTTAAGGACATCATTTTGTGA  
 CATAGTGAGTTTTCAGGAAAGCTGAGGTTACATGGAACCTCTCTCTCTCAAAAACAAAAC  
 AAAACAAAACAAAACCTTCTACTAATATTCTGGATTCTGTTTGTAGGATCTCAAG  
 AGCATGCTGACGTCATTATGTGTTTCCATCAGATACAGACAGAGATCATAAACATTTAA  
 CTCATTGATTATATGTTGAGAGTTGTCCCTCAAGAACCAATGGCCAAACATCCACTGAGG  
 ATACACGGAAGCTTAGAATATCTCTAATTAATAATCCTGACATAATGGAAGTGCTCACAAA  
 CCAGCC] AACACCTAATAAAACCAAGTGGCAAGAGCAACAACCTCGGCATTTTTCTACTTTG  
AATCCTGCCAACCCCTTTTTAGCCATACTCTTGCTACTCATAGCATATACTGTGATCC  
AAGCTCAAAATGTTACCAACATACTGATT [GCCAACCTGTCCCTCTCTGACATCTTGGTG  
 TGTGTCATGTGCATCCCTTTTACGATCATCTACACTCTGATGGACCACTGGGTATTTGGG  
 AACACTATGTGTAACTCACTTCCTACGTGCAAGTGCTCTCAGTTTCTGTGTCCATATTC  
 TCCCTTGTGTTGATTGCTATTGAACGATATCAGCTGATTGTGAACCCCGTGGCTGGAAA  
 CCCAGAGTAGCTCATGCCTATTGGGGGATCATCTTGATTGGGCTCATTTCTCTGACATTG  
 TCTATTCCCTTATTCCTGTCTTACCACCTACCAATGAGCCCTTCATAATCTCTCTCTC  
 CCTACTGACATCTACACCCACCAGGTAGCTTGTGTGGAGATTGGCCCTCTAAACTGAAC  
 CAACTCCTCTTTCTACATCATTATTTATGCTCCAGTATTTGTCCCTCTGGGTTTCATT  
 CTTATCTGCTACCTGAAGATCGTTCTCTGCCTCGAAAAAGAACTAGGCAGGTGGACAGG  
 AGAAAGGAAAAATAAGAGCCGCTCAATGAGAACAAGAGGTAATGTGATGTTGATTTC  
 ATCGTAGTGACTTTTGGAGCCTGCTGGTTGCCCTTGAACATTTCAATGTCACTTCGAC  
 TGGTATCATGAGATGCTGATGAGCTGCCACCACGACCTGGTATTTGTAGTTTGCCACTTG  
 ATTGCTATGGTTTCTACTTGCATAAATCCTCTCTTTATGGATTCTCAACAAAAACTTC  
 CAGAAG] GATCTAATGATGCTTATTACCACTGTGGTGTGGTGAACCTCAGGAAAGTTA  
 TGAAAAATATTGCCATGTCTACTATGCACACAGATGAATCCAAGGGATCATTAAACTGGC  
 TCACATACCAACAGGCATATAGAACTGGTAAGCAAAATCAAGCCCTTCTGTTATGAAA  
 GAAAGAGAAGAAATAGTATGGAATAGGGCAAGGTGCAGAGGAAGCCAGACTTAAACACAT  
 AATATCTTTGGGCCAGTTTGTCTTAAGTTAAGCATGTCTACTTCATTAGCCATAGAA  
 CACACAGAGATTTATCCCTACCTTTCTTTTCTTTTCTTTTGGGAAGATAATAACTTAAACA  
 ACCTAGACATCATTACTGAGGAAGAGAACAAAATGAGAGAGCATACAAGGACAGCAGAG  
 ATGCTTGGGGTACAAAATTCACGTTATTCGCTGGAATAGCTAGAAAGTTATTAGTTGTGC  
 TGCAG

FIGURE 2A

## Gene Sequence Structure

\*

846 bp

Sequence Deleted

1047 bp

Size of CDS: 2281 bp

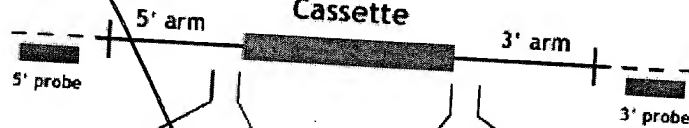
Targeting Vector\*  
(genomic sequence)

Construct Number: 2762

Arm Length:

5': 5 kb

3': 0.5 kb

LacZ-Neo  
Cassette

———— Targeting Vector  
 - - - - - Endogenous Locus

\* Not drawn to scale

5' >TTTAGGATCTCAAGAGCATGC  
 TGACGTCATTTATGTGTTTCCATC  
 AGATACTGACAGAGATCATAAACA  
 TTAACTCATTGATTATATGTTGA  
 GAGTTGTCCCTCAAGAACCAATGG  
 CCAAACATCCACTGAGGATACACG  
 GAAGCTTAGAAAATCTCTAATTAA  
 AATCCTGACATAATGGAAGTGCTC  
 ACAAAACGAGCC<3'  
 (SEQ ID NO:2)

5' >GCCAACCTGTCCCTCTCTGAC  
 ATCTTGGTGTGTGCATGTGCATC  
 CCTTTTACGGTCATCTACACTCTG  
 ATGGACCACTGGGTATTTGGGAAC  
 ACTATGTGTAAACTCACTTCCTAC  
 GTGCAAAGTGTCTCAGTTTCTGTG  
 TCCATATTCTCCCTTGTGTTGATT  
 GGTATTGAACGATATCAGCTGATT  
 GTCAACCCCG<3'  
 (SEQ ID NO:3)

FIGURE 2B